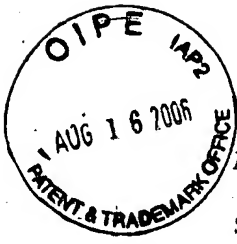


18W



Docket No. J&J5229USPCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Allen and Larkin

Serial No. : 10/581,428

Art Unit:

Filed : June 2, 2006

Examiner:

For : Modulation of Cytochrome P-450 Reductase Activity  
in Poppy Plants

I hereby certify that this correspondence is being deposited with the  
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August 14, 2006

(Date of Deposit)

John W. Harbour

(Name of applicant, assignee, or Registered Representative)

/John W. Harbour/

(Signature)

August 14, 2006

(Date of Signature)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

Applicant(s) reserve(s) the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this

information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

☒ In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified national application (other than a continued prosecution application under §1.53(d)), within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of a request for continued examination under §1.114, no additional fee is required.

☐ In accordance with §1.129(a), this Information Disclosure Statement is being filed in connection with ☐ the first or ☐ second After Final Submission, therefore:

- ☐ Statement in Accordance with §1.97(e) (attached); or
- ☐ Please charge Deposit Account No. 10-0750/ / the fee of \$180.00 as set forth in §1.17(p).

☐ In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, or an action that otherwise closes prosecution and that it is accompanied by one of:

- ☐ Statement in Accordance with §1.97(e) (attached); or
- ☐ Please charge Deposit Account No. 10-0750/ / the fee of \$180.00 as set forth in §1.17(p).

☐ In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee. Applicant(s) hereby petition(s) for consideration of this Information Disclosure Statement. Included are: Statement in Accordance with §1.97(e) as set forth below and the fee of \$180.00 as set forth in §1.17(p).

☒ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.

☐ Copies of references listed on the attached Form PTO-1449 are enclosed herewith EXCEPT THAT:

☐ In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.

☐ If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

☒ Copies of only foreign patent documents and non-patent literature are enclosed in accordance with 37 CFR 1.98 (a) (2).

☒ There are no listed references which are not in the English language.

☐ The relevance of those listed references which are not in the English language is as follows:

☐ Attached are copies of search report(s) from corresponding patent application(s), which are listed on the attached Submission Under MPEP 609 D.

☐ Attached are the following non-published pending patent applications which may be deemed relevant, which are listed on the attached Submission Under MPEP 609 D.

Please charge any deficiency or credit any overpayment to Deposit Account No. 10-0750/J&J5229/JWH. This form is submitted in triplicate.

Respectfully submitted,

/John W. Harbour/  
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Reg. No. 31,365  
Attorney for Applicants

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DATED: August 14, 2006

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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

<i>Application Number</i>	10/581,428
<i>Filing Date</i>	June 2, 2006
<i>First Named Inventor</i>	Robert Allen
<i>Group Art Unit</i>	
<i>Examiner Name</i>	
<i>Attorney Docket Number</i>	J&J5229USPCT

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 3

Application Number	10/581,428
Filing Date	June 2, 2006
First Named Inventor	Robert Allen
Group Art Unit	
Examiner Name	
Attorney Docket Number	J&J5229USPCT

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		AUSUBEL ET AL., Current Protocols in Molecular Biology, John Wiley & Sons Inc USA, Vol.1, and 2, 1994.	
		BROCHMANN-HANSEN, E. AND FURUYA T., "A new opium alkaloid - Isolation and characterization of (±)-1-(3'-Hydroxy-4'-methoxybenzyl)-2-methyl-6-methoxy-7-hydroxy-1,2,3,4-tetrahydroisoquinoline [(±)-reticuline]", <i>Planta Med.</i> 1964, 12, 328-333.	
		NAKAOJI ET AL., "Norreticuline and reticuline as possible new agents for hair growth acceleration", <i>Biological. Pharmaceutical Bulletin</i> , 1997, 20(5):586-588.	
		TOMITA ET AL., "Syntheses of dl-coclanoline and dl-laurifoline", <i>Chem. Abs.</i> , 1957, 51:8116-8117.	
		CROY R.D.D., <i>Plant Molecular Biology Labfax</i> , Bios Scientific Publications Limited (UK) and Blackwell Scientific Publications UK, 1993.	
		FENNING T.M. ET AL., "A strategy for the genetic manipulation of English elm". <i>Somatic cell genetics and molecular genetics of trees</i> . Kluwer Academic Publishers. Dordrecht, Netherlands. 1996, 105-112.	
		FENNING T.M. ET AL., "Transformation and regeneration of English elm using wild-type <i>Agrobacterium tumefaciens</i> ", <i>Plant Science (Limerick)</i> , 1996, 116:37-46.	
		FROMM M.E. ET AL., "Inheritance and expression of chimeric genes in the progeny of transgenic maize plants", <i>Bio/Technology</i> , 1990, 8:833-839.	
		GAMBORG O. L. ET AL., "Nutrient requirements of suspension cultures of soybean root cells", <i>Experimental Cell Research</i> , 1968, 50:151-158.	
		GARFINKEL D.J. AND NESTER E.W., "Agrobacterium tumefaciens mutants affected in crown gall tumorigenesis and octopine catabolism", <i>Journal of Bacteriology</i> , 1980, 144:732-743.	
		GOPINATH K.W. ET AL., "Synthese von d,l-Reticulin", <i>Chemische Berichte-Recueil</i> , 1959, 92:1657-1661.	
		GORDON-KAMM W.J. ET AL., "Transformation of maize cells and regeneration of fertile transgenic plants", <i>The Plant Cell</i> , 1990, 2:603-618.	
		HARPSTER M.H. ET AL., "Relative strengths of the 35S cauliflower mosaic virus, 1', 2', and nopaline synthase promoters in transformed tobacco sugarbeet and oilseed rape callus tissue", <i>Mol. Gen. Genet.</i> , 1988, 212:182-190.	
		HE T-C ET AL., "A simplified system for generating recombinant adenoviruses", <i>Proceedings of the National Academy of Science USA</i> , 1998, 95:2509-2514.	
		KONDA M. ET AL., "Amino acids and peptides. XVIII. A biogenetic-type, asymmetric synthesis of (S)-reticuline from L-3-(3,4-dihydroxyphenyl)-alanine by 1,3-transfer of asymmetry", <i>Chem. Pharm. Bull.</i> , 1975, 23(5):1063-1076.	
		LI W.B. AND KOMATSUDA T., "Impact of several factors related to inoculum, explants, compound and growth medium on tumorigenesis in vitro culture of soybean ( <i>Glycine gracilis</i> and <i>G. max</i> )", <i>Soybeans Genetics Newsletter</i> , 1995, 22:93-98.	
		NEEDLEMAN S.B. AND WUNSCH C.D., "A general method applicable to the search for similarities in the amino acid sequence of two proteins", <i>Journal of Molecular Biology</i> , 1970, 48:443-453.	
		ROSCO A. ET AL., "Cloning and heterologous expression of NADPH-cytochrome P450 reductases from the Papaveraceae", <i>Archives of Biochemistry and Biophysics</i> , 1997, 348(2):369-377.	
		SAMBROOK ET AL., <i>Molecular Cloning: A Laboratory Manual</i> , Book 1 to 3, Second Ed., Cold Spring Harbour Laboratory Press, New York, 1989.	
		SCHUNMANN P.H.D. ET AL., "A suite of novel promoters and terminators for plant biotechnology", <i>Functional Plant Biology</i> , 2003, 30:443-452.	
		WANG M-B. AND WATERHOUSE P.M., "Application of gene silencing in plants", <i>Current Opinion of Plant Biology</i> , 2001, 5:146-150.	

		WESLEY S.V. ET AL, "Construct design for efficient, effective and high-throughput gene silencing in plants", <i>The Plant Journal</i> , 2001, 27(6):581-590.	

Examiner Signature		Date Considered	
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